## **DELPHION**

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RESEARCH

INSIDE BELPHION

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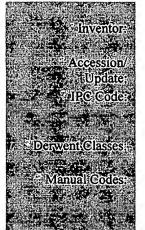
Derwent Record

Title:

Photochemical conversion of hop extracts in liq. or carbon di:oxide 
Derwent by irradiation under pressure to convert alpha acids to iso:alpha acids

FR2590589A1: NOUVEAU PROCEDE DE TRANSFORMATION PHOTOCHIMIQUE D'EXTRAITS DE HOUBLON ET DISPOSITIF POUR LA MISE EN OEUVRE DE CE PROCEDE.

CNRS CENT NAT RECH SCI Standard company Other publications from CNRS CENT NAT RECH SCI (CNRS)...



ANDRE J C; SAID A; VIRIOT M L;

1987-193400 / 198728

B01J 19/08; C07C 45/67; C07C 49/74; C12C 3/00

D16;

D05-B(Brewing, ethanolic fermentation [general and others])

(FR2590589A) Photochemical conversion of hop extracts obtd. by treating hops with liq. or supercritical CO2 involves photochemical irradiation under pressure of extracts contg. alpha and beta acids in soln. in liq. or supercritical CO2, to cause quantitative conversion of the alpha acids into iso-alpha acids. Pref. the molar concn. of the hop extract is 10 power (-3) to 10 power (-2)/1, and the CO2 soln. may contain a small amt. of a co-s0lveco-solvent, e.g. ethanol. Pref. treatment is at 50-300 bars and 0-75 deg.C, using radiation of wavelength 250-450nm. Irradiation is by photon emitter, which is a laser. discharge lamp, incandescence lamp, or the sun, placed outside the reactor. Or the radiation may be emitted by a non-stigmatic source of photons inside the reactor and in the soln., with radiation below 330nm and above 370nm eliminated by an optical filter. The radiation giving optimum yield is selected by a selective optical filtration system; opt., the radiation giving max. yield during the course of the reaction is selected by a selective optical filtration system as a function of the progress of the reaction. Selection may be by a fluorescent relay formed by a fluorescent liq. placed between the source of radiation and the reactor. The radiation source may be doped by a metallic halide to modify the spectrum of the rays emitted by the source. USE/Advantage - Chemical conversion is avoided. Conversion to iso-alpha acids is more rapid, and the steps of solubilisation and sepn. are avoided. Hops are used in mfr. of beer.

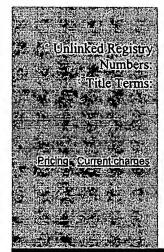
Dwg.0/9

PDF Patent Pub. Date Derwent Pages Language IPC Code Update Pages Language IPC Code Pages Language IPC Code Language Language IPC Code Language Language IPC Code Language Language IPC Code Language Lan

Show legal status actions

Priority/Numbers

<b>Application Number</b>	Filed	Original Title
FR1985000017436	1985-11-26	



1066U

PHOTOCHEMICAL CONVERT HOP EXTRACT LIQUID CARBON DI OXIDE IRRADIATE PRESSURE CONVERT ALPHA ACID ISO ALPHA ACID

Derwent Boolean Accession/Number Advanced Searches:

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